

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

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Docket Number (Optional)

Application Number

Applicant(s)

Filing Date

12-17-01

Group Art Unit

2857

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

1	Software by Andrew titled "RF Planner" dated 6-17-97
	2. A user guide titled: "Andrew Microwave System Planner" dated 7-99
	3. A user guide titled: "Andrew Antenna System Planner" dated 6-99

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

 INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>	Docket Number (Optional) 02560039AA	Application Number 10/015,954
	Applicant(s) Rappaport et al.	
	Filing Date 12-17-01	Group Art Unit 2857

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Pages, Etc.)*

1. Article "Building Database Manipulator" Copyright, January 1998; MPRG and Virginia Tech

2. PCS 97 Track 7; "Engineering & Systems Management; T. Rappaport

3. Propagator; Vol. 8, No. 3; Fall 1997.

4.SMT Plus 1.0 User's Manual; R. Skidmore & T. Rappaport; Copyright, August 1996; Virginia Tech

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Group Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	SEARCHED	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
39	1	4,675,147	6-23-87	Schaefer et al.			4-6-83
	2	4,736,453	4-5-88	Schloemer			12-10-85
	3	4,885,694	12-5-89	Pray et al.			4-29-87
	4	5,111,392	5-5-92	Malin			6-9-89
	5	5,119,307	6-2-92	Blaha et al.			12-22-89
	6	5,239,487	8-24-93	Horejsi et al.			10-24-90
	7	5,293,640	3-8-94	Gunmar et al.			
	8	5,307,261	4-26-94	Maki et al.			6-28-91
	9	5,337,149	8-9-94	Kozah et al.			11-12-92
	10	5,339,184	8-16-94	Tang			6-15-92
	11	5,375,123	12-20-94	Andersson et al.			2-5-93

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	STRUCTURE	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Permanent Pages, Etc.)

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEF Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with text communication to applicant.

INFORMATION DISCLOSURE CHART

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Docket Number (Optional)
02560039AA

Application Number
10/015,954

Applicant(s)

Filter Data

12/17/01

Group Art Unit

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EXAMINER INITIAL	REV	DOCUMENT NUMBER	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
Q	12	5,394,522	2-28-95 Sanchez-Frank et al.			9-13-93
	13	5,450,615	9-12-95 Fortune et al.			12-22-93
	14	5,458,123	10-17-95 Unger			4-29-94
	15	5,465,390	11-7-95 Cohen			2-12-93
	16	5,482,050	1-9-96 Sonokoff et al.			2-17-94
	17	5,485,568	1-16-96 Venable et al.			10-8-93
	18	5,491,644	2-13-96 Pickering et al.			9-7-93
	19	5,491,837	2-13-96 Haartsen			3-7-94
	20	5,493,679	2-20-96 Virgil et al.			10-29-93
	21	5,515,269	5-7-96 Willis et al.			11-8-93
B	22	5,528,518	6-18-96 Bradshaw et al.			10-25-94

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Applicant(s) T. Rappaport et al.	
Filing Date 12/17/01	Group Art Unit

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
QB	23	5,539,665	7-23-96	Lamming et al.			7-25-94
	24	5,553,312	9-3-96	Gattey et al.			6-20-94
	25	5,553,620	9-10-96	Snider et al.			5-1-95
	26	5,555,354	9-10-96	Strasnick et al.			3-23-93
	27	5,561,841	10-1-96	Markus			
	28	5,564,070	10-8-96	Want et al.			7-30-93
	29	5,594,946	1-14-97	Menich et al.			2-28-95
	30	5,598,532	1-28-97	Liron			10-21-93
	31	5,625,827	4-29-97	Krause et al.			12-23-94
	32	5,636,344	6-3-97	Lewis			8-22-91
SB	33	5,689,355	11-18-97	Okubo et al.			7-1-96

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REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

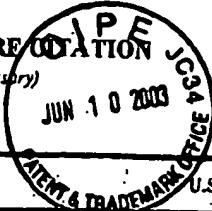
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
CP	34	5,761,093	6-2-98	Urbish et al.			5-8-97
	35	5,794,128	8-11-98	Brockel et al.			9-20-95
	36	5,799,154	8-25-98	Kuriyan			6-27-96
	37	5,809,282	8-15-98	Cooper et al			6-7-95
	38	5,815,395	9-29-98	Hart et al.			6-29-95
	39	5,828,960	10-27-98	Tang et al.			3-31-95
	40	5,831,610	11-3-98	Tonelli et al.			2-23-96
	41	5,832,389	11-3-98	Dent			4-3-96
	42	5,861,887	1-19-99	Butler et al.			12-5-95
	43	5,867,112	2-2-99	Kost			5-14-91
DB	44	5,877,777	3-2-99	Colwell			4-7-97

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REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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INFORMATION DISCLOSURE
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A circular stamp with a double-line border. The outer ring contains the text "PATENT & TRADEMARK OFFICE" at the top and "U.S.A." at the bottom. In the center, the text "JC34" is printed vertically, and below it, the date "JUN 10 2003" is printed.

Docket Number (Optional)
02560039AA

02560039AA

Application Number

10/015,954

12/17/01

Group Art Unit

~~U.S. PATENT DOCUMENTS~~

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
37	56	5,963,867	10-5-99	Reynolds et al.			8-16-95
	57	5,970,406	10-19-99	Komara			12-31-96
	58	5,987,328	11-16-99	Ephremides et al.			4-24-97
	59	6,006,021	12-21-99	Tognazzini			7-1-96
	60	6,018,625	1-25-00	Hayball et al.			8-27-97
	61	6,021,316	2-1-00	Heiska et al.			
	62	6,032,105	2-29-00	Lee et al.			7-31-97
	63	6,038,547	3-14-00	Casto			1-7-98
	64	6,044,273	3-28-00	Tekinay			12-10-96
	65	6,058,102	5-2-00	Drysdale et al			11-6-98
	66	6,058,262	5-2-00	Kawas et al.			4-18-97

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Applicant(s) T. Rappaport et al.	
Filing Date 12/17/01	Group Art Unit

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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DP	67	6,059,842	5-9-00	Dumarot et al.			4-14-98
	68	6,061,722	5-9-00	Lipa et al.			12-23-96
	69	6,075,541	6-13-00	Maclinovsky			11-7-97
	70	6,088,522	7-11-00	Lee et al.			7-31-97
	71	6,104,699	8-15-00	Holender et al.			
	72	6,108,309	8-22-00	Cohoe et al.			12-8-97
	73	6,111,857	8-29-00	Soliman et al.			9-11-97
	74	6,122,083	9-19-00	Ohta et al.			10-3-94
	75	6,148,010	11-14-00	Sutton et al.			6-24-98
	76	6,199,032	3-6-01	Anderson			7-22-98
CB	77	6,204,813	3-20-01	Wadell et al.			2-20-98

FOREIGN PATENT DOCUMENTS

REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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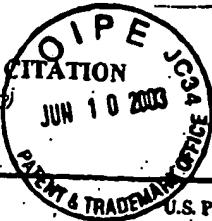
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T. Rappaport et al.Filing Date
12/17/01

Group Art Unit

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EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Q	78	6,208,833	3-27-01	Preschutti et al.			6-24-97
	79	6,229,540	5-8-01	Tonelli et al.			10-13-98
	80	6,253,086	6-26-01	Parantainen et al.			3-25-99
	81	6,285,377	9-4-01	Greenbaum et al.			6-26-97
	82	6,289,203	9-11-01	Smith et al.			2-25-98
	83	6,317,599	11-13-01	Rappaport et al.			5-26-99
	84	6,326,987	12-4-01	Alexander			12-19-00
	85	6,330,005	12-11-01	Tonelli et al.			10-6-99
	86	6,311,144	10-30-01	Abu El Ata			7-31-98
UP	87	6,337,688	1-8-02	Berstis			1-29-99
	88	6,338,031	1-8-02	Lee et al.			9-23-99

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REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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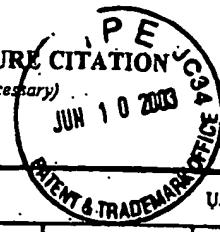
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Applicant(s) T. Rappaport et al.		
Filing Date 12/17/01	Group Art Unit	

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
90	89	6,356,758	3-12-02	Almeida et al.			12-31-97
	90	6,393,432	5-21-02	Flansburg et al.			6-2-99
	91	6,408,312	6-18-02	Furthman et al.			8-30-99
	92	6,442,507	8-27-02	Skidmore et al.			12-29-98
	93	6,470,195	10-22-02	Meyer			10-31-00
	94	6,487,417	11-26-02	Rossoni et al.			11-24-99
	95	6,493,679	12-10-02	Rappaport et al.			5-26-99
	96	6,496,290	12-17-02	Lee			12-17-98
	97	6,499,006	12-24-02	Rappaport et al.			7-14-99
	98	6,505,045	1-7-03	Hills et al.			4-10-00
GB	99	5,586,254	12-17-96	Kondo			

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REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Fraudulent	
						YES	NO

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EXAMINER	<i>Q. Blaust</i>	DATE CONSIDERED
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		JUN 10 2003	Applicant(s) T. Rappaport et al.	
		JC34	Filing Date 12/17/01	Group Art Unit

EXAMINER INITIAL	REF.	DOCUMENT NUMBER	DATE	NAME	CLASS		SUBCLASS	FILING DATE IF APPROPRIATE
					CL	SC		
QB	100	6,085,335	7-4-00	Djoko et al.				12-31-97
	101	5,710,758	1-20-98	Soliman et al.				9-29-95
	102	5,821,937	10-13-98	Tonelli et al.				8-12-96
	103	5,774,669	6-30-98	George et al.				7-28-95
	104	5,802,146	9-1-98	Dulman				11-22-95
	105	5,825,759	10-20-98	Liu				7-24-95
	106	5,845,124	12-1-98	Berman				5-1-96
	109	6,199,032	3-6-01	Anderson				7-22-98
	110	5,467,441	11-14-95	Stone et al.				10-6-94
	111	6,243,772	6-5-01	Ghori et al.				1-31-97
EB	112	5,994,984	11-30-99	Stancil et al.				5-29-98

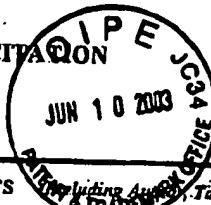
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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Filing Date 12/17/01		Group Art Unit

EXAMINER INITIAL	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)
JP	1 P. Bahl, V. Padmanabhan, and A. Balachandran, "A Software System for Locating Mobile Users: Design, Evaluation, and Lessons," Microsoft Technical Report, April 2000
	2 G. Durgin, T.S. Rappaport, H. Xu, Measurements and Models for Radio Path Loss and Penetration Loss in and Around Homes and Trees at 5.85 GHz, IEEE Transactions on Communications, vol. 46, no. 11, November 1998.
	3 C.M. Peter Ho et al., "Antenna Effects on Indoor Obstructed Wireless Channels and a Deterministic Image-Based Wide-Band Propagation Model for In-Building Personal Communications Systems," International Journal of Wireless Information Networks, Vol. 1, No. 1, 1994.
	4 S. Kim et al., "Radio Propagation Measurements and Predictions Using Three-dimensional Ray Tracing in Urban Environments at 908 MHz and 1.9 GHz," IEEE Transactions on Vehicular Technology, vol. 48, no. 3, May 1999
	5 T.S. Rappaport et al., "Use of Topographic Maps with Building Information to Determine Antenna Placements and GPS Satellite Coverage for Radio Detection and Tracking in Urban Environments," MPRG Technical Report MPRG-TR-95-14, Virginia Tech, September 1995
	6 R.K. Morrow, Jr. and T.S. Rappaport, "Getting In," Wireless Review Magazine, March 2000.
	7 Wireless Valley Communications, Inc., "SitePlanner 3.16 for Windows 95/98/NT User's Manual," Software User's Manual, pp.5-148 to 5-156, 1999.
	8 M. Panjwani et al., "Interactive Computation of Coverage Regions for Wireless Communication in Multifloored Indoor Environments," IEEE Journal on Selected Areas in Communications, Vol. 14, No. 3, April 1996.
	9 L. Piazzoli and H.L. Bertoni, "Achievable Accuracy of Site-Specific Path-Loss Predictions in Residential Environments" IEEE Transactions on Vehicular Technology, vol. 48, no. 3, May 1999.
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T.S. Rappaport, "Isolating Interference," Wireless Review Magazine, May 2000.

Slides from T.S. Rappaport and R. Skidmore, "Introduction to In-Building Wireless Systems," Infocast In-Building Wireless Solutions Conference and Exposition, February 4, 2003.

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S. Seidel et al., "Site-Specific Propagation Prediction for Wireless In-Building Personal Communication Design," IEEE Transactions on Vehicular Technology, Vol. 43, No. 4, November 1994.

S. Shakkottai and T.S. Rappaport, "Research Challenges in Wireless Networks: A Technical Overview," Proceeding of the Fifth International Symposium on Wireless Personal Multimedia Communications, Honolulu, HI, October 2002.

H. Sherali et al., "On the Optimal Location of Transmitters for Micro-cellular Radio Communication System Design," IEEE Journal on Selected Areas in Communications, Vol. Vol. 14, No. 3, pp. 662-673, May 1996.

R. Skidmore et al., "A Comprehensive In-Building and Microcellular Wireless Communication System Design Tool" The Bradley Department of Electrical Engineering, MPRG-TR-97-13, June 1997. Master's Thesis - unpublished by Virginia Tech for 2 years after submission.

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RB	24 R. Skidmore, et al., Russell Senate Office Building Propagation Study, Project Report for Joseph R. Loring & Associates; "Project Update," AoC Contract # Acbr96088, prepared for Office of the Architect of the Capitol, January 19, 1997.	Group Art Unit	
	25 R. Skidmore, et al., Russell Senate Office Building Propagation Study, Project Report for Joseph R. Loring & Associates; "Assessment and Study of the Proposed Enhancements of the Wireless Communications Environment of the Russell Senate Office Building (RSOB) and Associated Utility Tunnels," AoC Contract # Acbr96088, prepared for Office of the Architect of the Capitol, February 20, 1997.		
	26 R. Torres et al., "CINDOOR: An Engineering Tool for Planning and Design of Wireless Systems in Enclosed Spaces," IEEE Antennas and Propagation Magazine, Vol. 41, No. 4 August 1999.		
CB	27 R. Skidmore et al., "Interactive Coverage Region and System Design Simulation for Wireless Communication Systems in Multi-Floored Indoor Environments: SMT Plus™," IEEE ICUPC Proceedings, 1996.		
SB	T.S. Rappaport et al., "Radio Propagation Prediction Techniques and Computer-Aided Channel Modeling for Embedded Wireless Microsystems," MPRG Tech. Report MPRG-TR-95-08, Virginia Tech, July 1995.		
EXAMINER <i>Q Blank</i>	DATE CONSIDERED <i>12/23/01</i>		

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(Use several sheets if necessary)

JUN 10 2003
JC34 E-05

Docket Number (Optional)

02560039AA

Application Number

10/015,954

Applicant(s)

T. Rappaport et al.

Filing Date

12/17/01

Group Art Unit

EXAMINER
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Company Web Page "Actir" www.actir.com product name: E-NOS (now E-AMS)

Company Web Page " Agilent" www.agilent.com product name: OPAS32

Company Web Page " Agilent " www.agilent.com product name: Wizard

Company Web Page " Comarco" www.edx.com product name: SignalPro

Company Web Page " ComOpt" www. comopt.com. product name: CellOpt AFP

Company Web Page " Lucent" www.hell-labs.com product name: WiSE

Company Web Page " Ericsson" www.ericsson.com product name: TEMS Lite

Company Web Page " Ericsson" www.ericsson.com product name: TEMS

Company Web Page " Marconi" www.marconi.com product name: PlanET

Company Web Page " Marconi" www.marconi.com product name: decibelPlanner

Company Web Page " Schema" www.schema.com product name: Optimizer

Company Web Page " ScoreBoard" www.scoreboard.com product name: ScoreBoard

EXAMINER

C. Blaske

DATE CONSIDERED

12/23/03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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